

## SEQUENCE LISTING

<110> CHUGAI SEIYAKU KABUSHIKI KAISHA

<120> A method for producing antibodies by using MRL/lpr mice

<130> PH-1844-PCT

<140>

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<150> PCT/JP02/08998

<151> 2002-09-04

<160> 6

<170> PatentIn Ver. 2.1

<210> 1

<211> 31

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic

<400> 1

gatatcatgg ccgggaccgt gcgcaccgcg t

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<210> 2

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<212> DNA

<213> Artificial Sequence

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<223> Description of Artificial Sequence: Synthetic

<400> 2

gctagctcag tgcaccagga agaagaagca c

31

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<212> DNA

<213> Artificial Sequence

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<223> Description of Artificial Sequence: Synthetic

<400> 3

atagaattcc accatggccg ggaccgtgcg c

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<213> Artificial Sequence

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<223> Description of Artificial Sequence: Synthetic

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ataggatccc ttcagcgggg aatgaacgtt c

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<210> 5

<211> 580

<212> PRT

<213> Homo sapiens

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<221> SIGNAL

<223> (1).. (19)

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<221> SIGNAL

<223> (562).. (580)

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20 25 30  
Ala Thr Cys His Gln Val Arg Ser Phe Phe Gln Arg Leu Gln Pro Gly  
35 40 45  
Leu Lys Trp Val Pro Glu Thr Pro Val Pro Gly Ser Asp Leu Gln Val  
50 55 60  
Cys Leu Pro Lys Gly Pro Thr Cys Cys Ser Arg Lys Met Glu Glu Lys  
65 70 75 80  
Tyr Gln Leu Thr Ala Arg Leu Asn Met Glu Gln Leu Leu Gln Ser Ala  
85 90 95  
Ser Met Glu Leu Lys Phe Leu Ile Ile Gln Asn Ala Ala Val Phe Gln  
100 105 110  
Glu Ala Phe Glu Ile Val Val Arg His Ala Lys Asn Tyr Thr Asn Ala  
115 120 125  
Met Phe Lys Asn Asn Tyr Pro Ser Leu Thr Pro Gln Ala Phe Glu Phe  
130 135 140  
Val Gly Glu Phe Phe Thr Asp Val Ser Leu Tyr Ile Leu Gly Ser Asp  
145 150 155 160  
Ile Asn Val Asp Asp Met Val Asn Glu Leu Phe Asp Ser Leu Phe Pro  
165 170 175  
Val Ile Tyr Thr Gln Leu Met Asn Pro Gly Leu Pro Asp Ser Ala Leu  
180 185 190  
Asp Ile Asn Glu Cys Leu Arg Gly Ala Arg Arg Asp Leu Lys Val Phe  
195 200 205  
Gly Asn Phe Pro Lys Leu Ile Met Thr Gln Val Ser Lys Ser Leu Gln  
210 215 220

Val Thr Arg Ile Phe Leu Gln Ala Leu Asn Leu Gly Ile Glu Val Ile			
225	230	235	240
Asn Thr Thr Asp His Leu Lys Phe Ser Lys Asp Cys Gly Arg Met Leu			
	245	250	255
Thr Arg Met Trp Tyr Cys Ser Tyr Cys Gln Gly Leu Met Met Val Lys			
	260	265	270
Pro Cys Gly Gly Tyr Cys Asn Val Val Met Gln Gly Cys Met Ala Gly			
	275	280	285
Val Val Glu Ile Asp Lys Tyr Trp Arg Glu Tyr Ile Leu Ser Leu Glu			
	290	295	300
Glu Leu Val Asn Gly Met Tyr Arg Ile Tyr Asp Met Glu Asn Val Leu			
305	310	315	320
Leu Gly Leu Phe Ser Thr Ile His Asp Ser Ile Gln Tyr Val Gln Lys			
	325	330	335
Asn Ala Gly Lys Leu Thr Thr Thr Ile Gly Lys Leu Cys Ala His Ser			
	340	345	350
Gln Gln Arg Gln Tyr Arg Ser Ala Tyr Tyr Pro Glu Asp Leu Phe Ile			
	355	360	365
Asp Lys Lys Val Leu Lys Val Ala His Val Glu His Glu Glu Thr Leu			
	370	375	380
Ser Ser Arg Arg Arg Glu Leu Ile Gln Lys Leu Lys Ser Phe Ile Ser			
385	390	395	400
Phe Tyr Ser Ala Leu Pro Gly Tyr Ile Cys Ser His Ser Pro Val Ala			
	405	410	415
Glu Asn Asp Thr Leu Cys Trp Asn Gly Gln Glu Leu Val Glu Arg Tyr			
	420	425	430
Ser Gln Lys Ala Ala Arg Asn Gly Met Lys Asn Gln Phe Asn Leu His			
	435	440	445
Glu Leu Lys Met Lys Gly Pro Glu Pro Val Val Ser Gln Ile Ile Asp			
	450	455	460
Lys Leu Lys His Ile Asn Gln Leu Leu Arg Thr Met Ser Met Pro Lys			
465	470	475	480
Gly Arg Val Leu Asp Lys Asn Leu Asp Glu Glu Gly Phe Glu Ser Gly			
	485	490	495
Asp Cys Gly Asp Asp Glu Asp Glu Cys Ile Gly Gly Ser Gly Asp Gly			
	500	505	510

Met Ile Lys Val Lys Asn Gln Leu Arg Phe Leu Ala Glu Leu Ala Tyr  
           515                          520                          525  
 Asp Leu Asp Val Asp Asp Ala Pro Gly Asn Ser Gln Gln Ala Thr Pro  
           530                          535                          540  
 Lys Asp Asn Glu Ile Ser Thr Phe His Asn Leu Gly Asn Val His Ser  
 545                          550                          555                          560  
 Pro Leu Lys Leu Leu Thr Ser Met Ala Ile Ser Val Val Cys Phe Phe  
                           565                          570                          575  
 Phe Leu Val His  
                           580

<210> 6  
 <211> 579  
 <212> PRT  
 <213> Mus musculus

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 <221> SIGNAL  
 <222> (1).. (19)

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 <221> SIGNAL  
 <222> (561).. (579)

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 Gly Leu Gly Cys Leu Gly Gln Ala Gln Pro Pro Pro Pro Pro Asp Ala  
                           20                          25                          30  
  
 Thr Cys His Gln Val Arg Ser Phe Phe Gln Arg Leu Gln Pro Gly Leu  
           35                          40                          45  
  
 Lys Trp Val Pro Glu Thr Pro Val Pro Gly Ser Asp Leu Gln Val Cys

50	55	60
Leu Pro Lys Gly Pro Thr Cys Cys Ser Arg Lys Met Glu Glu Lys Tyr		
65	70	75 80
Gln Leu Thr Ala Arg Leu Asn Met Glu Gln Leu Leu Gln Ser Ala Ser		
	85	90 95
Met Glu Leu Lys Phe Leu Ile Ile Gln Asn Ala Ala Val Phe Gln Glu		
	100	105 110
Ala Phe Glu Ile Val Val Arg His Ala Lys Asn Tyr Thr Asn Ala Met		
	115	120 125
Phe Lys Asn Asn Tyr Pro Ser Leu Thr Pro Gln Ala Phe Glu Phe Val		
	130	135 140
Gly Glu Phe Phe Thr Asp Val Ser Leu Tyr Ile Leu Gly Ser Asp Ile		
145	150	155 160
Asn Val Asp Asp Met Val Asn Glu Leu Phe Asp Ser Leu Phe Pro Val		
	165	170 175
Ile Tyr Thr Gln Met Met Asn Pro Gly Leu Pro Glu Ser Ala Leu Asp		
	180	185 190
Ile Asn Glu Cys Leu Arg Gly Ala Arg Arg Asp Leu Lys Val Phe Gly		
	195	200 205
Ser Phe Pro Lys Leu Ile Met Thr Gln Val Ser Lys Ser Leu Gln Val		
	210	215 220
Thr Arg Ile Phe Leu Gln Ala Leu Asn Leu Gly Ile Glu Val Ile Asn		
225	230	235 240
Thr Thr Asp His Leu Lys Phe Ser Lys Asp Cys Gly Arg Met Leu Thr		

	245	250	255
Arg Met Trp Tyr Cys Ser Tyr Cys Gln Gly Leu Met Met Val Lys Pro			
260	265	270	
Cys Gly Gly Tyr Cys Asn Val Val Met Gln Gly Cys Met Ala Gly Val			
275	280	285	
Val Glu Ile Asp Lys Tyr Trp Arg Glu Tyr Ile Leu Ser Leu Glu Glu			
290	295	300	
Leu Val Asn Gly Met Tyr Arg Ile Tyr Asp Met Glu Asn Val Leu Leu			
305	310	315	320
Gly Leu Phe Ser Thr Ile His Asp Ser Ile Gln Tyr Val Gln Lys Asn			
325	330	335	
Gly Gly Lys Leu Thr Thr Thr Ile Gly Lys Leu Cys Ala His Ser Gln			
340	345	350	
Gln Arg Gln Tyr Arg Ser Ala Tyr Tyr Pro Glu Asp Leu Phe Ile Asp			
355	360	365	
Lys Lys Ile Leu Lys Val Ala His Val Glu His Glu Glu Thr Leu Ser			
370	375	380	
Ser Arg Arg Arg Glu Leu Ile Gln Lys Leu Lys Ser Phe Ile Asn Phe			
385	390	395	400
Tyr Ser Ala Leu Pro Gly Tyr Ile Cys Ser His Ser Pro Val Ala Glu			
405	410	415	
Asn Asp Thr Leu Cys Trp Asn Gly Gln Glu Leu Val Glu Arg Tyr Ser			
420	425	430	
Gln Lys Ala Ala Arg Asn Gly Met Lys Asn Gln Phe Asn Leu His Glu			

435                      440                      445  
 Leu Lys Met Lys Gly Pro Glu Pro Val Val Ser Gln Ile Ile Asp Lys  
 450                      455                      460  
 Leu Lys His Ile Asn Gln Leu Leu Arg Thr Met Ser Val Pro Lys Gly  
 465                      470                      475                      480  
 Lys Val Leu Asp Lys Ser Leu Asp Glu Glu Gly Leu Glu Ser Gly Asp  
 485                      490                      495  
 Cys Gly Asp Asp Glu Asp Glu Cys Ile Gly Ser Ser Gly Asp Gly Met  
 500                      505                      510  
 Val Lys Val Lys Asn Gln Leu Arg Phe Leu Ala Glu Leu Ala Tyr Asp  
 515                      520                      525  
 Leu Asp Val Asp Asp Ala Pro Gly Asn Lys Gln His Gly Asn Gln Lys  
 530                      535                      540  
 Asp Asn Glu Ile Thr Thr Ser His Ser Val Gly Asn Met Pro Ser Pro  
 545                      550                      555                      560  
 Leu Lys Ile Leu Ile Ser Val Ala Ile Tyr Val Ala Cys Leu Phe Phe  
 565                      570                      575  
 Leu Val His